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Transportation System; 6.5.1 Application of Corollary 6.2; 6.5.2 Application of Corollary 5.11; 6.5.3 Results Comparison; 7 Reliability of Large Multi-State Exponential Systems; 7.1 Auxiliary Theorems; 7.2 Algorithms for Reliability Evaluation of Multi-state Exponential Systems; 7.3 Algorithms Application to Reliability Evaluation of Exponential Systems; 8 Large Systems Related Problems; 8.1 Domains of Attraction for System Limit Reliability Functions
8.2 Speed of Convergence of System Reliability Function Sequences
8.3 Reliability of Large Series-'m Out of n' Systems; 8.4 Reliability of Large 'm Out of n'-Series Systems; 8.5 Reliability of Large Hierarchical Systems; 8.6 Asymptotic Approach to Systems Reliability Improvement; 9 Complex Systems; 9.1 Introduction; 9.2 Complex System Operation Process Modelling; 9.3 Complex System Reliability Modelling; 9.4 Complex System Reliability and Operation Optimization; 10 Large Complex Systems; 10.1 Asymptotic Approach to Reliability of Large Complex Systems
10.2 Limit Reliability Functions of Large Complex Systems
10.3 Examples of Large Complex Systems Reliability Evaluation; Summary; Description/Abstract; Bibliography

Sommario/riassunto

Reliability of Large and Complex Systems, previously titled Reliability of Large Systems, is an innovative guide to the current state and reliability of large and complex systems. In addition to revised and updated content on the complexity and safety of large and complex mechanisms, this new edition looks at the reliability of nanosystems, a key research topic in nanotechnology science. The author discusses the importance of safety investigation of critical infrastructures that have aged or have been exposed to varying operational conditions. This reference provides an
